

SEQUENCE LISTING

<110> Whitehouse, Martha Jo

<120> Methods and Compositions for the  
Treatment of Peripheral Artery Disease

<130> PP16090.004

<150> 60/213,504  
<151> 2000-06-22

<150> 60/264,572  
<151> 2000-01-26

<150> 60/276,549  
<151> 2001-03-16

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<170> FastSEQ for Windows Version 4.0

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<212> DNA  
<213> Bos taurus

<220>  
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<222> (1)...(441)

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ttc aaa gat cca aaa cga cta tat tgt aaa aac ggg ggg ttc ttc cta	96
Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu	
20 25 30	
cga atc cac cca gat ggg cga gta gat ggg gta cga gaa aaa tcc gat	144
Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp	
35 40 45	
cca cac atc aaa cta caa cta caa gcc gaa cga ggg gta gta tcc	192
Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser	
50 55 60	
atc aaa ggg gta tgt gcc aac cga tat cta gcc atg aaa gaa gat ggg	240
Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly	
65 70 75 80	
cga cta cta gcc tcc aaa tgt gta acc gat gaa tgt ttc ttc gaa	288
Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu	
85 90 95	
cga cta gaa tcc aac aac tat aac acc tat cga tcc cga aaa tat tcc	336
Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Ser	
100 105 110	

tcc tgg tat gta gcc cta aaa cga acc ggg caa tat aaa cta ggg cca 384  
Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Pro  
115 120 125

aaa acc ggg cca ggg caa aaa gcc atc cta ttc cta cca atg tcc gcc 432  
Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala  
130 135 140

aaa tcc taa 441  
Lys Ser \*  
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<210> 2  
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<212> PRT  
<213> Bos taurus

<400> 2  
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20 25 30  
Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp  
35 40 45  
Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser  
50 55 60  
Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly  
65 70 75 80  
Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Phe Glu  
85 90 95  
Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Ser  
100 105 110  
Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Pro  
115 120 125  
Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala  
130 135 140  
Lys Ser  
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<210> 3  
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<212> DNA  
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<220>  
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<222> (1)...(441)

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ttc aag gac ccc aag cgg ctg tac tgc aaa aac ggg ggc ttc ttc ctg 96  
Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu  
20 25 30

cgc atc cac ccc gac ggc cga gtt gac ggg gtc cgg gag aag agc gac	144
Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp	
35	40
45	
cct cac atc aag cta caa ctt caa gca gaa gag aga gga gtt gtg tct	192
Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser	
50	55
60	
atc aaa gga gtg tgt gct aac cgt tac ctg gct atg aag gaa gat gga	240
Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly	
65	70
75	80
aga tta ctg gct tct aaa tgt gtt acg gat gag tgt ttc ttt ttt gaa	288
Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu	
85	90
95	
cga ttg gaa tct aat aac tac aat act tac cgg tca agg aaa tac acc	336
Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr	
100	105
110	
agt tgg tat gtg gca ctg aaa cga act ggg cag tat aaa ctt gga tcc	384
Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser	
115	120
125	
aaa aca gga cct ggg cag aaa gct ata ctt ttt ctt cca atg tct gct	432
Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala	
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Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp	
35	40
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Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser	
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Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly	
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Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu	
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95	
Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr	
100	105
110	
Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser	
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Lys Ser	
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 <213> Bos taurus

<220>  
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ggg tcc ggg gcc ttc cca cca ggg cac ttc aaa gat cca aaa cga cta Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu 20           25           30	96
tat tgt aaa aac ggg ggg ttc ttc cta cga atc cac cca gat ggg cga Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg 35           40           45	144
gta gat ggg gta cga gaa aaa tcc gat cca cac atc aaa cta caa cta Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu 50           55           60	192
caa gcc gaa gaa cga ggg gta tcc atc aaa ggg gta tgt gcc aac Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn 65           70           75           80	240
cga tat cta gcc atg aaa gaa gat ggg cga cta cta gcc tcc aaa tgt Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys 85           90           95	288
gta acc gat gaa tgt ttc ttc gaa cga cta gaa tcc aac aac tat Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr 100           105           110	336
aac acc tat cga tcc cga aaa tat tcc tcc tgg tat gta gcc cta aaa Asn Thr Tyr Arg Ser Arg Lys Tyr Ser Ser Trp Tyr Val Ala Leu Lys 115           120           125	384
cga acc ggg caa tat aaa cta ggg cca aaa acc ggg cca ggg caa aaa Arg Thr Gly Gln Tyr Lys Leu Gly Pro Lys Thr Gly Pro Gly Gln Lys 130           135           140	432
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<210> 6  
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 <212> PRT  
 <213> Bos taurus

<400> 6  
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 Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu  
 20           25           30

Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg  
 35 40 45  
 Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu  
 50 55 60  
 Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn  
 65 70 75 80  
 Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys  
 85 90 95  
 Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr  
 100 105 110  
 Asn Thr Tyr Arg Ser Arg Lys Tyr Ser Ser Trp Tyr Val Ala Leu Lys  
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 Arg Thr Gly Gln Tyr Lys Leu Gly Pro Lys Thr Gly Pro Gly Gln Lys  
 130 135 140  
 Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser  
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 <212> DNA  
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<220>  
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ggc agc ggc gcc ttc ccg ccc ggc cac ttc aag gac ccc aag cgg ctg	96
Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu	
20 25 30	
tac tgc aaa aac ggg ggc ttc ttc ctg cgc atc cac ccc gac ggc cga	144
Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg	
35 40 45	
gtt gac ggg gtc cgg gag aag agc gac cct cac atc aag cta caa ctt	192
Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu	
50 55 60	
caa gca gaa gag aga gga gtt gtg tct atc aaa gga gtg tgt gct aac	240
Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn	
65 70 75 80	
cgt tac ctg gct atg aag gaa gat gga aga tta ctg gct tct aaa tgt	288
Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys	
85 90 95	
gtt acg gat gag tgt ttc ttt gaa cga ttg gaa tct aat aac tac	336
Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr	
100 105 110	
aat act tac cgg tca agg aaa tac acc agt tgg tat gtg gca ctg aaa	384
Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys	
115 120 125	
cga act ggg cag tat aaa ctt gga tcc aaa aca gga cct ggg cag aaa	432

Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln Lys  
130 135 140

gct ata ctt ttt ctt cca atg tct gct aag agc tga ttttaa 474  
Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser \*  
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<210> 8  
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<212> PRT  
<213> Homo sapiens

<400> 8  
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20 25 30  
Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg  
35 40 45  
Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu  
50 55 60  
Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn  
65 70 75 80  
Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys  
85 90 95  
Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr  
100 105 110  
Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys  
115 120 125  
Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln Lys  
130 135 140  
Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser  
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<210> 9  
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<213> Bos taurus

<400> 9  
Met Ala Ala Gly Ser Ile Thr Thr Leu  
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